

HERBAGE REVIEWS

VOL. 6. NOS 1-4.

1938



Herbage Publication Series

PUBLISHED BY THE
IMPERIAL BUREAU OF PASTURES AND FORAGE CROPS
ABERYSTWYTH, GREAT BRITAIN

COMMONWEALTH BUREAU OF PASTURES AND FIELD CROPS	
REF.	
REC'D.	3 OCT 1957
AB. by	
DATE	
Ab. articles: PP.	

- Abies*, 108
Acrocladium
 A. cuspidatum, 78
Adesmia
 A. bicolor, 219
Agropyron, 6, 37, 179, 180, 194, 204, 279, 288
 A. repens, 288
 A. scabrum, 158
 A. Smithii, 36
Agrostis, 125, 146, 148, 159, 279, 280,
 A. alba, 53, 59, 77, 78, 79, 80
 A. canina, 77, 78
 A. capillaris, 11, 12
 A. tenuis, 43, 288
Aira
 A. caespitosa, 78
 A. caryophylla, 41
Alnus, 108
Alopecurus
 A. geniculatus, 78
 A. pratensis, 58, 59, 78, 166
Andropogon, 196, 242
 A. sorghum var. *Sudanensis*, 55
Anthyllis
 A. vulneraria, 164, 168
Arabis
 A. corymbiflora, 12
Arachis
 A. hypogaea, 54, 55, 121
Arnica
 A. montana, 13
Arrhenatherum
 A. elatius, 279
Astragalus
 A. chilensis, 121
Atriplex
 A. paludosum, 153
 A. semibaccatum, 153
 A. stipitatum, 153
 A. vesicarium, 42, 153
Avena, 204
 A. byzantina, 219, 243
 A. elatior, 57, 58, 59, 60, 61, 62, 77
 A. fatua, 194
 A. flavescens, 59
 A. pratensis, 179
 A. pubescens, 179
 A. sativa, 37, 243
 A. sempervirens, 179
Baccharis, 242
Bassia
 B. Birchii, 189
Beckmannia
 B. eruciformis, 77, 79
Berberis
 B. vulgaris, 181
Beta, 108
Bouteloua, 37
Brassica
 B. Tournifortii, 197
Brija
 B. maxima, 41
 B. minor, 41
Bromus, 187, 189, 279
 B. Abolinii, 188
 B. arvensis, 189
 B. brachystachys, 189
 B. commutatus, 187, 189
 B. grandistachys, 188
 B. inermis, 147, 189, 288
 B. intermedius, 187, 189
 B. japonicus, 187, 188, 189
 B. lepidus, 188
 B. macrostachys, 189
 B. maximus, 41
 B. mollis, 41, 188, 189
 B. oxyodon, 189
 B. pectinatus, 189
 B. phrygius, 188
 B. racemosus, 189
 B. scoparius, 189
 B. secalinus, 187, 189
 B. Set erzowii, 189
 B. squarrosus, 187, 188, 189
 B. Szabóii, 189
 B. tectorum, 187
 B. unioides, 41, 219, 243, 287, 288
Buchloë, 37
Calamagrostis
 C. lanceolata, 77, 78, 80
Calluna, 58, 166
Campanula
 C. barbata, 11, 13
Canavalia
 C. ensiformis, 56
Cardamine
 C. pratensis, 78
Carex, 77, 78, 80, 211
 C. pallascens, 13
 C. stricta, 77
Casuarina, 41
 C. stricta, 40, 41
Centaurea
 C. calcitrapa, 242
 C. melitensis, 242
Chloris
 C. gayana, 55, 217, 219
Chondrilla
 C. juncea, 197
Chrysocoma, 287, 288
 C. tenuifolia, 283, 286
Cicer, 180
Cirsium, 61
 C. arvense, 61
 C. lanceolatum, 242
Citrus, 30
Crataegus
 C. oxycantha, 41
Crepis
 C. aurea, 12
Crotalaria, 49
 C. retusa, 55
 C. striata, 55
Cuscuta, 181, 215
Cynara
 C. cardunculus, 242
Cynodon
 C. dactylon, 53
Cynosurus
 C. cristatus, 43, 59, 77, 79, 198, 237
Cyperus
 C. rotundus, 197
Dactylis, 60, 61, 62
 D. glomerata, 6, 59, 60, 61, 127, 146, 148, 221, 264, 279, 288
Danthonia, 159, 283, 287, 288
 D. disticha, 282
 D. penicillata, 41
Daucus, 121
Desmodium, 55
 D. toruosum, 56
Digitaria, 217
Dolichos
 D. lablab, 54, 55
Ehriaria
 E. calycina, 153
 E. villosa, 153
Elymus, 179
Eragrostis, 288
Eriophorum, 109
Eschscholtzia
 E. californica, 32
Eucalyptus, 152
 E. leucoxydon, 41
 E. obliqua, 41
 E. odorata, 41
Euchlaena, 179
Eupatorium
 E. bunifolium, 242
Fagopyrum
 F. tataricum, 181
Festuca, 146, 148, 189, 283, 287, 288
 F. bromoides, 41
 F. caprina, 282
 F. pratensis, 6, 51, 59, 60, 77, 78, 79, 80, 125, 223, 229, 264, 267, 279,
 F. pseudovina, 53
 F. rubra, 6, 11, 43, 51, 59, 125, 229, 264, 267, 279, 282
 F. rubra commutata, 12, 13
Festucaria, 189
Genista, 58, 164
Gentiana
 G. Kochiana, 13
Helianthus, 180
 H. divaricatus, 180
 H. maximiliani, 180
 H. rigidus, 180
 H. tomentosus, 180
 H. tuberosus, 180
Hemizonia, 34
Holcus
 H. lanatus, 77, 288
Hordeum, 121

- H. bulbosum*, 179
H. europaeum, 179
H. murinum, 41
H. secalinum, 179
H. violaceum, 179
Hyparrhenia
H. rufa, 244
Hypericum
H. perforatum, 197
Juniperus, 58
Kochia, 94
K. Georgii, 153
K. tomentos, 153
Koeleria, 37
K. cristata, 282
Lantana
L. camara, 197
Larix, 108
Lathyrus, 179, 180
L. latifolius, 179
L. montanus, 164, 165, 166, 168, 169
L. paluster, 164, 166, 168
L. pratensis, 58, 80, 164, 166, 168, 169, 269
L. rotundifolius, 179
L. silvestris, 179
L. tuberosus, 179
Lavandula
L. Stoechas, 41
Layia, 34
L. hieracioides, 34
Leontodon
L. hispidus, 12
Lepidium
L. repens, 48
Lespedeza, 219
Ligusticum
L. mutellina, 12
Lolium, 61, 153, 222, 223, 267
L. italicum, 51
L. multiflorum, 243, 279
L. perenne, 59, 60, 77, 125, 148, 149, 236, 265, 274, 279, 288.
Lotus, 165
L. corniculatus, 53, 164
L. hispidus, 162
L. tenuifolius, 53, 164, 165
L. uliginosus, 77, 79, 164, 165, 168, 169
Lupinus, 210
L. albus, 64, 68, 69, 219
L. angustifolius, 51, 64, 65, 69, 70
L. luteus, 51, 64, 65, 69, 70, 71
L. mutabilis, 68, 69
L. perennis, 180
L. polyphyllus, 67, 180, 269
Luzula
L. multiflora, 13
Lysimachia
L. nummularia, 78
Madia
M. citriodora, 34
M. dissitiflora, 34
Malva, 94
M. verticillata, 86, 92, 93, 94
Medicago, 61, 62, 125, 127, 165, 210, 219
M. coerulea, 22, 24
M. falcata, 53, 82, 164, 165, 168, 169
M. lupulina, 53, 165, 168.
M. media, 82
M. sativa, 24, 60, 61, 82, 85, 147, 153, 269
M. tribuloides, 153
M. varia, 61, 164, 165, 168
M. vulgaris, 82
Meibomia, 55
Melilotus
M. alba, 147
M. albus, 269
M. dentatus, 164, 165
M. officinalis, 147
Melinis
M. minutiflora, 55, 244
Mesembryanthemum
M. aeguilaterale, 40
Molinia
M. coerulea, 57, 60
Mucuna, 55
Nardus, 11, 13, 166
N. stricta, 10, 166
Neobromus, 189
Nicotiana, 199
N. glauca, 199
N. Langsdorfii, 199
N. Rusbyi, 199
N. rustica, 199
N. Sylvestris, 199
N. tabacum, 199
Obione
O. portulacoides, 262
Oenothera
O. odorata, 153
Olea
O. europaea, 41
Olearia
O. axillaris, 40
Onobrychis
O. sativa, 216
O. viciifolia, 164, 165, 168, 169
Ononis, 58
Ornithopus, 210
O. sativus, 51
Oryza, 121
Panicum, 196
P. bulbosum, 179
P. capillare, 179
P. virgatum, 179
Paspalum, 196
P. dilatatum, 288
Pennisetum
P. clandestinum, 244
P. purpureum, 55, 219, 244
Phalaris
P. arundinacea, 58, 60, 77, 78, 79, 224, 279
Phaseolus, 121, 180
P. mungo, 56
P. perennis, 180
P. tuberosus, 180
P. vulgaris, 258
Phleum, 222
P. alpinum, 11
P. Micheli, 12, 13
P. pratense, 59, 77, 78, 79, 80, 146, 147, 148, 216, 236, 237, 264, 279
Pisum
P. sativum, 64
Plantago
P. alpina, 11, 12
P. montana, 12
Poa, 61, 62, 149, 228, 229
P. alpina, 231, 232
P. compressa, 146, 148, 150, 279
P. fertilis, 77, 79, 80
P. nemoralis, 288
P. palustris, 78, 228, 232
P. pratensis, 46, 59, 60, 61, 77, 79, 125, 146, 148, 150, 228, 229, 230, 231, 232, 264, 274, 279, 280, 288
P. trivialis, 59, 78, 80, 228, 229, 233
Polygonum
P. convolvulus, 181
Potentilla
P. aurea, 13
P. glandulosa, 34
Prunus
P. spinosa, 58
Ranunculus, 78, 211
Rosa, 58
R. rubiginosa, 41
Rubus
R. fruticosus, 41
Salix, 108
Scirpus
S. nodosus, 40
Secale, 179, 180
S. africanum, 179
S. anatolicum, 179
S. cereale, 46, 152
S. Kuprijanovi, 179
S. montanum, 179
Sedum
S. praealtum, 33
Senecio
S. jacobaea, 197
S. retrorsus, 283
Serrafalcus, 189
Silene
S. inflata, 12
Silybum

S. marianum, 242
Sinapis, 127
Soja, 245
 S. gracilis, 245
 S. hispida, 245, 258
 S. indica, 245
 S. javanica, 245
 S. pentaphylla, 245
 S. tomentosa, 245
 S. ussuriensis, 245
Solanum
 S. demissum, 180
Sorghum, 179
 S. exiguum, 216
 S. halepense, 179
 S. saccharatum, 216
 S. vulgare var. *sudanense*, 147
Spartina, 259, 261
 S. alterniflora, 259, 261
 S. brasiliensis, 261
 S. glabra, 259, 261
 S. juncea, 259, 261
 S. maritima, 261
 S. pilosa, 261
 S. stricta, 259, 261, 262
 S. townsendii, 259, 261, 262
 S. typica, 261
 S. versicolor, 261
Spinifex
 S. hirsutus, 40
Sporobolus, 37

Stenobromus, 189
Stenotaphrum, 244
Stipa, 35, 37
 S. charruana, 242
 S. hyalina, 242
 S. neesiana, 242
 S. papposa, 242
Stizolobium, 55
 S. deeringianum, 56
Taraxacum, 108
Tetragonolobus
 T. siliguosus, 164, 165
Themeda, 287, 288
 T. triandra, 41, 217, 282
Tricholaena, 55
Trifolium
 T. fragiferum, 164, 165, 168
 T. hybridum, 77, 79, 80, 165,
 168, 169, 211, 264, 267
 T. incarnatum, 51, 125
 T. medium, 164, 165, 168, 169
 T. minus, 165
 T. pratense, 50, 51, 53, 59, 80,
 127, 146, 147, 148, 164, 166,
 168, 169, 264, 269
 T. procumbens, 165
 T. repens, 12, 43, 53, 59, 60,
 80, 146, 148, 149, 150, 164,
 168, 169, 211, 236, 239, 264,
 280, 288

T. spadiceum, 164, 165, 168
 T. subterraneum, 153
Triniusia, 189
Tripsacum, 179
Triticum, 180, 204
 T. junceum, 262
Ulex
 U. europaeus, 41
Valonia
 V. ventricosa, 47
Veronica
 V. nudiflora, 242
Vicia, 219
 V. cracca, 59, 165, 168, 180,
 269
 V. sepium, 59, 164, 180
 V. sylvatica, 180
 V. villosa, 51
Vigna
 V. sinensis, 56
Xanthium
 X. pungens, 197
 X. spinosum, 242

HERBAGE REVIEWS—1938—SUMMARY OF CONTENTS

Articles.

	PAGE
Methods of breeding herbage plants based on group variability. I. S. Travin.	1—9
Principles governing the value of herbage plants for hay and pasture use. E. Klapp.	57—63
The breeding of sweet lupins. R. von Sengbusch.	64—71
Soil Conservation Districts in the United States. J. Phil Campbell.	72—75
Ley-farming and a long-term agricultural policy. R. G. Stapledon.	129—145
United States Regional Pasture Research Laboratory. R. J. Garber.	146—150
Plant regeneration and pasture improvement under arid and semi-arid conditions in South Australia. H. C. Trumble.	151—154
The Ontario Agricultural and Experimental Union. G. P. McRostie.	155—157
Grassland farming in New Zealand. P. W. Smallfield.	158—163
The legumes of grassland. E. Klapp.	164—171
Illustrated notes on the technique of grass-breeding at Aberystwyth. A. R. Beddows and A. G. Davis.	221—227
Seed production of the <i>Poa</i> species. E. Åkerberg.	228—233
Reflections concerning new crop varieties. J. W. Gregor.	234—239
Grassland panorama of the La Plata region. A. Boerger.	240—244
The German soybean problem. W. Riede.	245—258

Reviews.

Experimental study of alpine vegetation.	10—13
Danish experiments with seeds mixtures.	14—20
Lucerne in the Soviet Union.	20—28
USSR Academy of Sciences. Research at the Institute of Plant Physiology.	28—31
Carnegie Institution of Washington.	32—37
Ecological and physiological studies in the blooming of oat flowers.	37—39
Vegetation of South Australia.	39—42
Improvement of moorland grass.	76—80
International lucerne test.	81—85
The fodder mallow.	86—94
Variation within strains in Norwegian red clover.	95—101
The works of V. N. Ljubimenko.	102—104
A study in vegetative reproduction.	104—106
A Russian textbook on plant ecology.	106—110
Future of the Great Plains.	110—114
Soil Conservation Service : Research programme.	114—116
Headwaters control and use.	116—119
Variation within strains in Norwegian red clover.	172—177
Some recent advances in agriculture.	177—184
Ecology in agriculture.	185—186
Taxonomy of <i>Bromus</i>	187—191
Canadian Weed Control Committee.	192—195
The vegetation of Petén.	195—196
<i>Spartina</i> in the Netherlands.	259—262
Herbage plant improvement in Finland.	263—270
Research at a Soil Conservation Experiment Station.	271—274
Pasture improvement in Eastern Canada.	275—280
Ecological survey of the mountain area of Basutoland.	280—289

Conferences.

New Zealand Grassland Association. International Grassland Congress Reports. American Association for the Advancement of Science. Ecological Society of America. American Society of Plant Physiologists. American Phytopathological Society. Association of Scandinavian Agricultural Investigators. . .	43—49
Conference on Pedology and Plant Physiology, Saratov, U.S.S.R. Argentine Society for the study of Natural Science. Norwegian Section of N.J.F. Central Fodder and Grazing Committee, India.	120—123
Australian and New Zealand Association for the Advancement of Science. Conference on Pedology and Plant Physiology, Saratov, U.S.S.R. Biochemical Association of the Academy of Science in U.S.S.R. American Association for the Advancement of Science. Ecological Society of America. American Society of Plant Physiologists. British Association for the Advancement of Science. New Zealand Grassland Association. First South American Botanical Congress. Seventh International Botanical Congress.	197—209
Massachusetts Institute of Technology Spectroscopy Conference. Oxford Farming Conference. Eighth International Congress of Tropical and Sub-tropical Agriculture. International Congress of Agriculture. Fifth International Grassland Congress.	290—294

Annotations.

Germany, Hungary, Netherlands, French Sudan, Brazil, Argentine.	50—56
Great Britain, Germany, U.S.S.R., Sweden, Denmark, Switzerland, Australia.	124—128
Germany, Hungary, Finland, Esthonia, Norway, Sweden, Netherlands, Rumania, South Africa, U.S.A., Uruguay.	210—219
U.S.A.	295—296

HERBAGE REVIEWS—1938—CORRIGENDA.

- No. 1. p. 41, line 16, for *europear* read *europaea*
 No. 1. p. 47, line 4, for Oahv read Oahu
 No. 3. p. 179, line 30, for Stampf. read Stapf
 No. 3. p. 187, last line, for *Semerzovii* read *Sewerzowii*
 No. 3. p. 199, line 29, for *N. Langsdorfii* read *N. Langsdorfii*